

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the installation of new loop detectors and probes B. Equipment to be furnished and installed by the Contractor, at the intersection of MD 273 (Main Street) and Rising Sun Town Center Entrance / Pumping Station Lane. In Cecil County, Maryland, MD 273 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

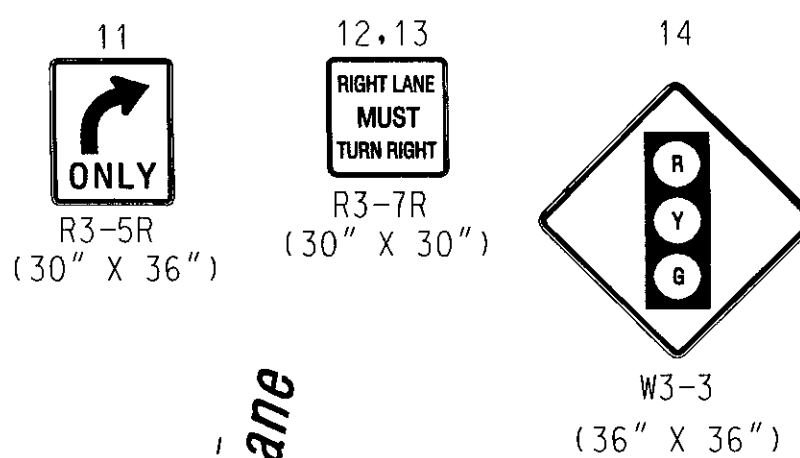
The intersection currently operates in NEMA four (4) phase, full-traffic-actuated mode. The MD 273 through movements operate concurrently with a concurrent pedestrian movement across the south leg of the intersection. The Rising Sun Town Center Entrance / Pumping Station Lane movements operate concurrently with an actuated pedestrian movement across the west leg of the intersection.

The existing cabinet/controller, and phasing will be utilized.

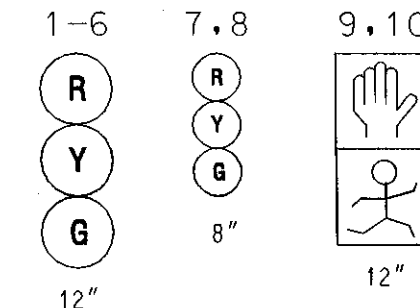
EQUIPMENT LIST

Category	Code No.	Quantity	Units	Description
	800000	1	LS	Video detection system
	810550	2	EA	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
	805135	200	LF	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched during construction.
	811001	1	EA	Handhole.

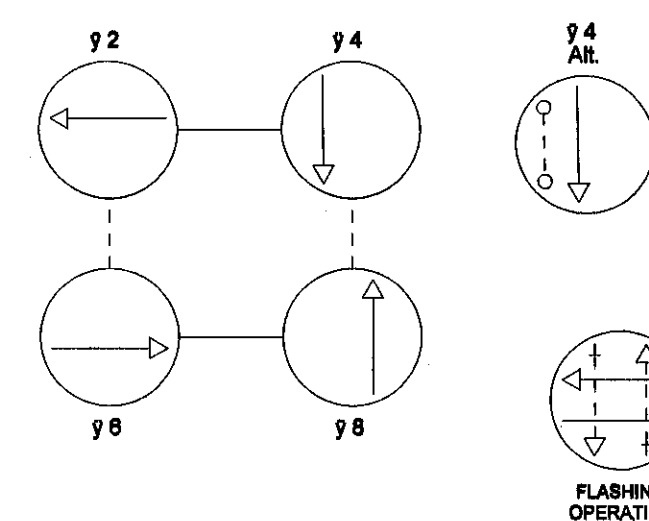
EXISTING SIGNS



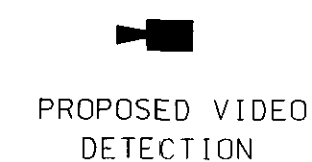
EXISTING SIGNALS



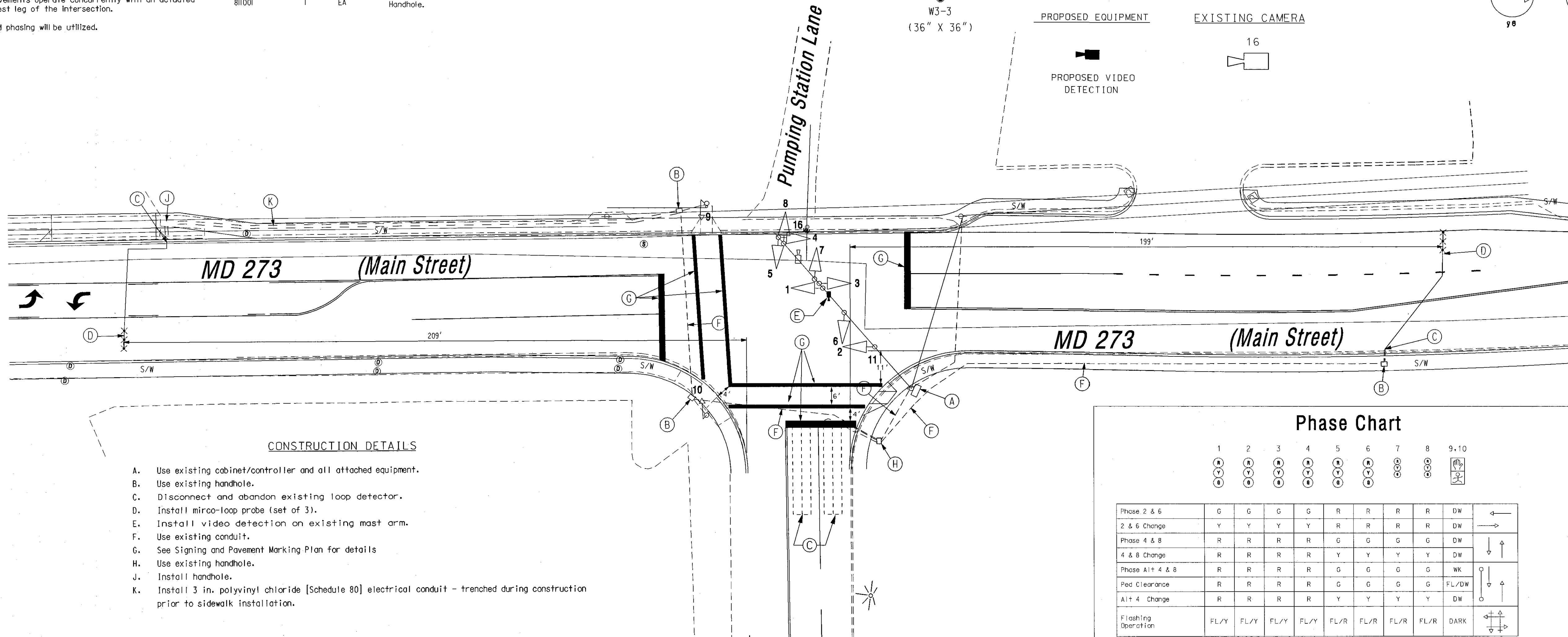
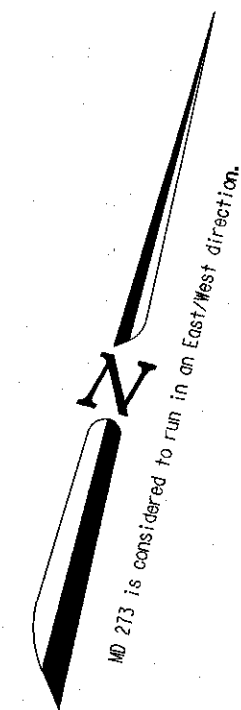
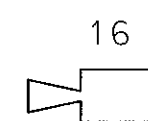
EXISTING NEMA PHASING



PROPOSED EQUIPMENT



EXISTING CAMERA



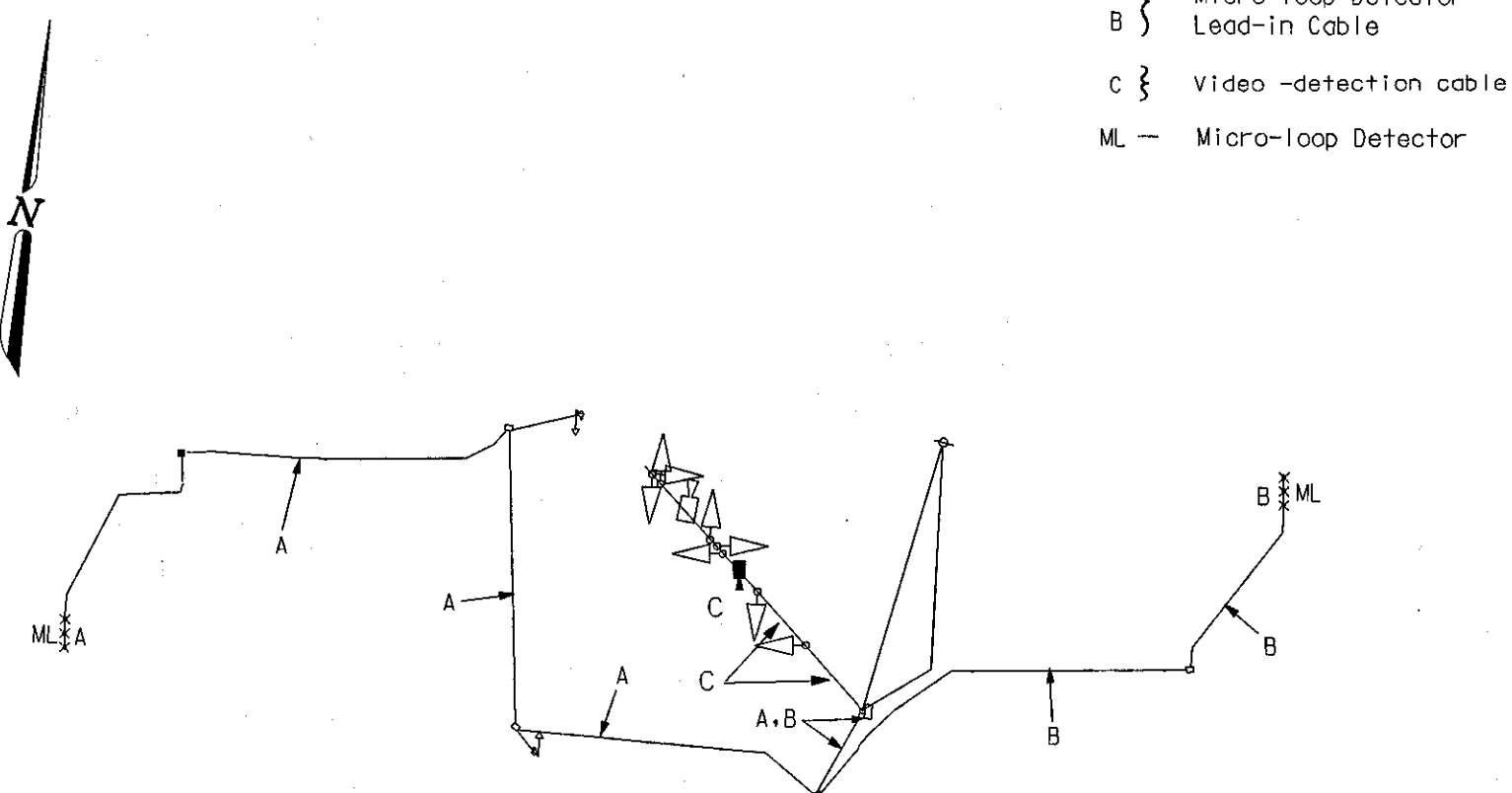
CONSTRUCTION DETAILS

- A. Use existing cabinet/controller and all attached equipment.
- B. Use existing handhole.
- C. Disconnect and abandon existing loop detector.
- D. Install micro-loop probe (set of 3).
- E. Install video detection on existing mast arm.
- F. Use existing conduit.
- G. See Signing and Pavement Marking Plan for details.
- H. Use existing handhole.
- J. Install handhole.
- K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched during construction prior to sidewalk installation.

Phase Chart

	1	2	3	4	5	6	7	8	9,10
	R	Y	G	R	Y	G	R	Y	G
Phase 2 & 6	G	G	G	R	R	R	R	DW	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	Y	Y	Y	DW	DW
Phase Alt 4 & 8	R	R	R	R	G	G	G	WK	WK
Red Clearance	R	R	R	R	G	G	G	FL/DW	FL/DW
Alt 4 Change	R	R	R	R	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK

Wiring Diagram

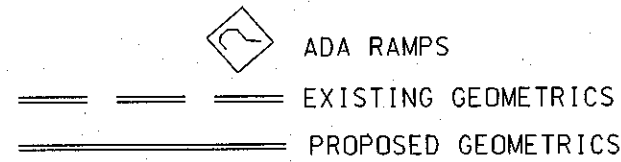


Rising Sun
Town Center
Entrance

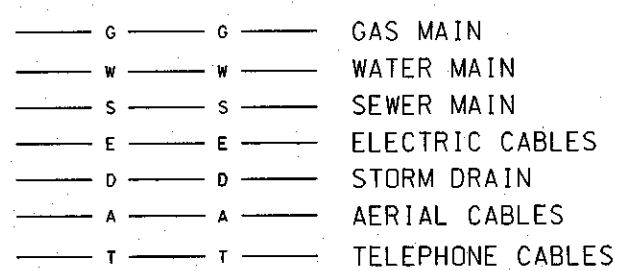
NOTES

- Loop detectors and conduits shall be installed prior to the installation of pavement markings, sidewalks, and final paving.
- Pavement markings detailed are proposed and are to be installed as part of the highway project or are considered as existing.
- Revision 'A' is a revision to the traffic signal built in October, 2000.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND



UTILITY LEGEND



Revision "A"



The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

REVISIONS

NO.	DESCRIPTION	DATE
1	UPGRADE DETECTION FOR NB APPROACH	5/02
JJD		

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 273 @ RISING SUN SHOPPING CENTER
RISING SUN, MARYLAND

DRAWN BY: T. ZAYDEL
CHECKED BY: K. SCHMID
SCALE: 1:20
DATE: 10/10/2000

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. CE794A21
COUNTY: CECIL
LOG MILE: 07027302.10

TS NO. 4042 A
T.I.M.S. NO. E-700

SHEET NO. OF